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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/678,183	10/06/2003	David Joseph Kropaczek	24GA5999	2333	
33727 7590 06/29/2006				EXAMINER	
•	DICKEY & PIERCE,	PHAN, THAI Q			
P.O. BOX 8910 RESTON, VA 20195			ART UNIT	PAPER NUMBER	
			2128		
			DATE MAILED: 06/29/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commence	10/678,183	KROPACZEK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Thai Phan	2128				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>06 Oc</u>	ctober 2003.					
	action is non-final.					
·						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.	<u> </u>					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	·.					
10)⊠ The drawing(s) filed on 06 October 2003 is/are:	a)⊠ accepted or b)□ objected	to by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
Certified copies of the priority documents have been received in Application No						
3. ☐ Copies of the certified copies of the prior						
application from the International Bureau	•	or in anovicational orago				
* See the attached detailed Office action for a list of the certified copies not received.						
	•					
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	atent Application (PTO-152)				

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DETAILED ACTION

This Office Action is in response to patent application S/N: 10/678,183, filed on 10/06/2003. Claims 1-16 are pending in the action.

Drawings

The Drawings filed on 10/06/2003 are acceptable for examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Chao et al, US patent application publication no. 2004/0196946.

As per claim 1, Chao anticipates a method for creating and loading nuclear core fuel pattern with feature limitations very identical to the claimed invention. According to Chao, the method includes selectively assigning using graphical user interface (38) providing a graphical representation of a nuclear reactor core, fuel assembly or bundle, categories or reactivity levels, refinements to fuel bundle positions and to load fuel pattern in the graphical representation ([0008], [0013], [0015], [0029], [0033]).

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As per claim 2, Chao anticipates a plurality of nuclear fuel types as claimed ([0033]-[0036]).

As per claims 3-4 and 6-13, Chao anticipates the claimed steps as selectively setting fuel assembly or bundle group, amounts of fuels, fuel types (exposed, reinserted, used), finer or coarsen reactivity, setting template fields for loading patterns, or loading positions, etc ([0033]-[0038]).

As per claim 5, Chao anticipates quadrants in the graphical representation (Fig. 3, [0032]).

As per claims 14-16, Chao anticipates a method for creating and loading nuclear core fuel pattern with feature limitations very identical to the claimed invention.

According to Chao, the method and system includes a graphical user interface (38) for selectively assigning fuel reactivity types or bundle group, and providing a graphical representation of a nuclear reactor core, fuel assembly or bundle, categories or reactivity levels, refinements to fuel bundle positions and to load fuel pattern to a desire positions (loading map) in the graphical representation ([0008], [0013], [0015], [0029], [0033]).

Conclusion

- 1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 1. US patent no. 5,406,598, issued to Takeuchi et al, on Apr. 1995
- 2. US patent no. 6,631,384, issued to Richman et al, on Oct. 2003

3. US patent no. 6,931,090, issued to Chao et al, Aug. 2005

- 4. US patent application publication no. 2004/0101083, issued to Russell et al, on May 2004
- 5. US patent application publication no. 2004/0196946, issued to Chao et al, on Oct. 2004
- 6. US patent application publication no. 2004/0191734, issued to Russell et al, on Sept. 2004
- 7. US patent application publication no. 2005/0086036, issued to Kropaxzek et al, on Apr. 2005
- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Thai Phan whose telephone number is 571-272-3783.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamini Shah can be reached on 571-272-2279. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

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June 23, 2006

Thai Phan

Patent Examiner